

In the Claims

Claims 1-20 (canceled).

Claim 21 (currently amended):

A method of controlling or inhibiting an insect wherein said method comprises contacting said insect with effective amounts of a Protein A, a Protein B, and a Protein C, wherein

said Protein A is approximately 230-290 kDa, said Protein A is a complex-forming protein, wherein a polynucleotide A that encodes said Protein A hybridizes under stringent conditions with the full complement of a nucleic acid sequence A that encodes SEQ ID NO:34 (XptA2<sub>Xwi</sub>)

said Protein B is approximately 130-180 kDa, said Protein B is a complex-forming protein, wherein a polynucleotide B that encodes said Protein B hybridizes under stringent conditions with the full complement of a nucleic acid sequence B that encodes a B amino acid sequence selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), SEQ ID NO:56 (TcaC), SEQ ID NO:18 (XptC1<sub>Xwi</sub>), and SEQ ID NO:49 (XptB1<sub>Xb</sub>);

said Protein C is approximately 90-120 kDa, said Protein C is a complex-forming protein, wherein a polynucleotide C that encodes said Protein C hybridizes under stringent conditions with the full complement of a nucleic acid sequence C that encodes a C amino acid sequence selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), SEQ ID NO:57 (TccC5), SEQ ID NO:16 (XptB1<sub>Xwi</sub>), and SEQ ID NO:51 (XptC1<sub>Xb</sub>);

said Protein A has activity against an insect and said activity is potentiated by said Protein B and said Protein C;

said Protein B and said Protein C potentiate the activity of said Protein A;

wherein when said C amino acid sequence is selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>), said B amino acid sequence is selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), and SEQ ID NO:56 (TcaC) ~~when said C amino acid sequence is selected~~

~~from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>);~~

wherein when said B amino acid sequence is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>), said C amino acid sequence is selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), and SEQ ID NO:57 (TccC5) ~~when said B amino acid sequence is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>); and~~

wherein said stringent conditions are 0.1X SSC and 0.1% SDS at 55° C.

Claim 22 (previously presented):

The method of claim 21 wherein said Protein A comprises SEQ ID NO:34 (XptA2<sub>Xwi</sub>).

Claim 23 (previously presented):

The method of claim 21 wherein said B amino acid sequence is SEQ ID NO:45 (TcdB2).

Claim 24 (previously presented):

The method of claim 21 wherein said C amino acid sequence is selected from the group consisting of SEQ ID NO:47 (TccC3) and SEQ ID NO:57 (TccC5).

Claim 25 (previously presented):

The method of claim 21 wherein said nucleic acid sequence B encodes SEQ ID NO:45 (TcdB2), and nucleic acid sequence C encodes SEQ ID NO:47 (TccC3).

Claims 26-33 (canceled).

Claim 34 (currently amended):

A method of inhibiting an insect wherein said method comprises contacting said insect with an A component, a B component, and a C component, wherein said components form an insecticidal toxin complex, wherein

said A component is a 230-290 kDa complex-forming protein having at least 95% identity with an A amino acid sequence selected from the group consisting of SEQ ID NO:34 (XptA2) and SEQ ID NO:14 (XptA1);

said B component is a 130-180 kDa complex-forming protein having at least 95% identity with a B amino acid sequence selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), SEQ ID NO:56 (TcaC), SEQ ID NO:18 (XptC1<sub>Xwi</sub>), and SEQ ID NO:49 (XptB1<sub>Xb</sub>);

said C component is a 90-120 kDa complex-forming protein having at least 95% identity with a C amino acid sequence selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), SEQ ID NO:57 (TccC5), SEQ ID NO:16 (XptB1<sub>Xwi</sub>), and SEQ ID NO:51 (XptC1<sub>Xb</sub>);

wherein said A component has activity against an insect, and wherein said B and C components potentiate said activity;

wherein when said C amino acid sequence is selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>), said B amino acid sequence is selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), and SEQ ID NO:56 (TcaC)-~~when said C amino acid sequence is selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>)~~; and

wherein when said B amino acid sequence is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>), said C amino acid sequence is selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), and SEQ ID NO:57 (TccC5)-~~when said B amino acid sequence is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>)~~.

Claim 35 (previously presented):

The method of claim 34 wherein said A amino acid sequence is SEQ ID NO:34 (XptA2).

Claim 36 (currently amended):

A method of inhibiting an insect wherein said method comprises contacting said insect with an A component, a B component, and a C component, wherein said components form an insecticidal toxin complex, wherein

said A component is a 230-290 kDa complex-forming protein having at least 95% identity with an A sequence selected from the group consisting of SEQ ID NO:21 (TcdA), SEQ ID NO:62 (TcdA2), SEQ ID NO:63 (TcdA4), and SEQ ID NO:59 (TcbA);

said B component is a 130-180 kDa complex-forming protein having at least 95% identity with an amino acid sequence selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), SEQ ID NO:56 (TcaC), SEQ ID NO:18 (XptC1<sub>Xwi</sub>), and SEQ ID NO:49 (XptB1<sub>Xb</sub>);

said C component is a 90-120 kDa complex-forming protein having at least 95% identity with an amino acid sequence selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), SEQ ID NO:57 (TccC5), SEQ ID NO:16 (XptB1<sub>Xwi</sub>), and SEQ ID NO:51 (XptC1<sub>Xb</sub>);

wherein said A component has activity against an insect, and said B and C components potentiate said toxin activity;

wherein when said C sequence is selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), and SEQ ID NO:57 (TccC5), said B sequence is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>) ~~when said C sequence is selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), and SEQ ID NO:57 (TccC5);~~ and

wherein when said B sequence is selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), and SEQ ID NO:56 (TcaC), said C sequence is selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID

~~NO:51 (XptC1<sub>Xb</sub>) when said B sequence is selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), and SEQ ID NO:56 (TcaC).~~

Claim 37 (previously presented):

The method of claim 36 wherein said A sequence is SEQ ID NO:21 (TcdA).

Claim 38 (currently amended):

The method of claim 34, wherein

said A component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:34 (XptA2) and SEQ ID NO:14 (XptA1);

said B component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), SEQ ID NO:56 (TcaC), SEQ ID NO:18 (XptC1<sub>Xwi</sub>), and SEQ ID NO:49 (XptB1<sub>Xb</sub>); and

said C component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), SEQ ID NO:57(TccC5), SEQ ID NO:16 (XptB1<sub>Xwi</sub>), and SEQ ID NO:51 (XptC1<sub>Xb</sub>);

wherein when said C component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>),

said B component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:22 (TcdB1), SEQ ID NO:45 (TcdB2), and SEQ ID NO:56 (TcaC) ~~when said C component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:16 (XptB1<sub>Xwi</sub>) and SEQ ID NO:51 (XptC1<sub>Xb</sub>); and~~

wherein when said B component is selected from the group consisting of SEQ ID NO:18

(XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>), said C component comprises an amino acid sequence selected from the group consisting of SEQ ID NO:25 (TccC1), SEQ ID NO:47 (TccC3), and SEQ ID NO:57(TccC5) ~~when said B component is selected from the group consisting of SEQ ID NO:18 (XptC1<sub>Xwi</sub>) and SEQ ID NO:49 (XptB1<sub>Xb</sub>).~~

Claim 39 (previously presented):

The method of claim 38 wherein when said A component comprises SEQ ID NO:34 (XptA2).

Claim 40 (previously presented):

The method of claim 35 wherein said B amino acid sequence is SEQ ID NO:45 (TcdB2) and said C amino acid sequence is selected from the group consisting of SEQ ID NO:47 (TccC3) and SEQ ID NO:57 (TccC5).

Claim 41 (previously presented):

The method of claim 40 wherein said C amino acid sequence is SEQ ID NO:47 (TccC3).

Claim 42 (previously presented):

The method of claim 39 wherein said B component comprises SEQ ID NO:45 (TcdB2), and said C component comprises SEQ ID NO:47 (TccC3).